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NABL ACCREDITED AS PER ISO/IEC 17025:2005

Job No.: CECTC-JCP-SWD-2014-15

Date: 05.03.2014

TEST RESULTS OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Client : **Executive Engineer,** Rajarajeshwari Nagara Division, BBMP, Bangalore.

Agency : **Sri.J.C.Prakash,** Contractor, Bangalore.

Name of Work : Construction of Bridge over storm water drain at 5th Cross Road and 12th Main Road, Muthyala Nagar in JP Park Ward No.17

Sample Identification : 10mm, 12mm, 16mm,20mm, 25mm TMT Fe 415 Bars

Technical Reference : IS 1786:2008, IS 1608:2005, IS 1599:1985 (Reaffirmed 2006)

Date of test : 05.03.2014

S.No	Brand	Nominal size (dia in mm)	Mass per metre (kg/metre)	TENSILE STRENGTH		
				0.20 % proof stress/ yield stress ($N/mm^{2)}$	Tensile strength ($N/mm^{2)}$	Elongation, percent on gauge length
1	Fe 415	10	0.620	499	503	16.0
2	Fe 415	12	0.887	520	550	19.0
3	Fe 415	16	1.59	535	575	20.0
4	Fe 415	20	2.450	557	596	22.0
5	Fe 415	25	3.850	596	612	23.0

Note:

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NABL ACCREDITED AS PER ISO/IEC 17025:2005

Job No.: CECTC-JCP-SWD-2014-15 Date: 05.03.2014

TEST RESULTS OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Client : **Executive Engineer,** Rajarajeshwari Nagara Division, BBMP, Bangalore.

Agency : **Sri.J.C.Prakash,** Contractor, Bangalore.

Name of Work : Construction of Bridge over storm water drain at 5th Cross Road and 12th A Main Road, Muthyala Nagar in JP Park Ward No.17

Sample Identification : 10mm, 12mm, 16mm,20mm, 25mm TMT Fe 415 Bars

Technical Reference : IS 1786:2008, IS 1608:2005, IS 1599:1985 (Reaffirmed 2006)

Date of test : 05.03.2014

S.No	Brand	Nominal size (dia in mm)	Mass per metre (kg/metre)	TENSILE STRENGTH		
				0.20 % proof stress/ yield stress ($N/mm^{2)}$	Tensile strength ($N/mm^{2)}$	Elongation, percent on gauge length
1	Fe 415	10	0.617	491	523	16.0
2	Fe 415	12	0.889	512	546	19.0
3	Fe 415	16	1.57	539	569	20.0
4	Fe 415	20	2.460	557	580	22.0
5	Fe 415	25	3.840	571	603	23.0

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Job No.: CECTC-JCP-2014-15

Date: 10.03.2014

TEST REPORT

CLIENT	:	**Executive Engineer,** Rajarajeshwari Nagara Division, BBMP Bangalore.
AGENCY	:	**Sri.J.C.Prakash,** Contractor, Bangalore.
NAME OF THE WORK	:	Construction of Bridge over Storm Water Drain at 5th Cross Road and 12th A Main Road, Muthyala Nagar in JP Park Ward No.17, BBMP, Bangalore.
SAMPLE ID	:	Cement
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part -5)	160 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	390 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	30.00 %	

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NABL ACCREDITED AS PER ISO/IEC 17025:2005

Job No: CECTC-JCP-2014-15

Date : 10.03.2014

TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

Client : **Executive Engineer,** Rajarajeshwari Nagara Division, BBMP Bangalore.

Agency : **Sri.J.C.Prakash,** Contractor, Bangalore.

Name of Work : Construction of Bridge over Storm Water Drain at 5th Cross Road and 12th A Main Road, Muthyala Nagar in JP Park Ward No.17, BBMP, Bangalore.

Date of Testing : 10.03.2014

Material : Sand

Total Wt. of Aggregates **1500**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	86	5.73	5.73	94.3	90-100
2.36	132	8.80	14.53	85.5	75-100
1.18	215	14.33	28.87	71.1	55-90
600 Micron	259	17.27	46.13	53.9	35-59
300 Micron	354	23.60	69.73	30.3	8-30
150 Micron	254	16.93	86.67	13.3	0-10

Information is furnished by the Agency

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Date : 10.03.2014

Job No : CECTC-JCP-2014-15

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Executive Engineer,** Rajarajeshwari Nagara Division, BBMP Bangalore.

Agency : **Sri.J.C.Prakash,** Contractor, Bangalore.

Name of Work : Construction of Bridge over Storm Water Drain at 5th Cross Road and 12th A Main Road, Muthyala Nagar in JP Park Ward No.17, BBMP, Bangalore.

Date of Testing : 10.03.2014

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	523	3.49	3.49	96.51	95-100
20	8896	59.31	62.79	37.21	30-70
10	3451	23.01	85.80	14.20	10-35
4.75	1465	9.77	95.57	4.43	0-5

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Job No.: CECTC-JCP-2014-15 Date : 10.03.2014

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Executive Engineer,** Rajarajeshwari Nagara Division, BBMP Bangalore.

Agency : **Sri.J.C.Prakash,** Contractor, Bangalore.

Name of Work : Construction of Bridge over Storm Water Drain at 5th Cross Road and 12th A Main Road, Muthyala Nagar in JP Park Ward No.17, BBMP, Bangalore.

Date of Testing : 10.03.2014

Material : 20mm Aggregates

Total Wt. of Aggregates in gms = 5000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
40	0	0	0	100	100
20	152	3.0	3.0	97.0	95-100
10	2874	57.5	60.5	39.5	25-55
4.75	1765	35.3	95.8	4.2	0-10

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Job No.: CECTC-JCP-W.O-17-2014-15 Date: 15.11.2014

TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer,** Rajarajeshwarinagar Division, BBMP, Bangalore.
Agency : **M/s J C Prakash Infrastructure Pvt. Ltd.,** Bangalore.
Name of the work : Construction of Bridge over Strom Water Drain at 5th Cross Road 12A Main Road, Muthyala Nagar in JP Park Ward No.17
Location : Approach Slab
Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm^2
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M_{30}
Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	18.10.2014	15.11.2014	8.233	722.3	32.10
2	18.10.2014	15.11.2014	8.254	754.2	33.52
3	18.10.2014	15.11.2014	8.269	736.5	32.73

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Job No.: CECTC-JCP-W.O-17-2014-15 Date: 13.08.2014

TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer,** Rajarajeshwarinagar Division, BBMP, Bangalore.
Agency : **M/s J C Prakash Infrastructure Pvt. Ltd.,** Bangalore.
Name of the work : Construction of Bridge over Strom Water Drain at 5th Cross Road and 12th A Main Road, Muthyala Nagar in JP Park Ward No.17
Location :Super structure
Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm^2
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M_{35}
Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	16.07.2014	13.08.2014	8.205	841.2	37.39
2	16.07.2014	13.08.2014	8.236	855.9	38.04
3	16.07.2014	13.08.2014	8.240	832.1	36.98

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Job No.: CECTC-JCP-W.O-17-2014-15 Date: 11.07.2014

TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer,** Rajarajeshwarinagar Division, BBMP, Bangalore.
Agency : **M/s J C Prakash Infrastructure Pvt. Ltd.,** Bangalore.
Name of the work : Construction of Bridge over Strom Water Drain at 5th Cross Road and 12th A Main Road, Muthyala Nagar in JP Park Ward No.17
Location : Super Structure
Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm^2
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M_{35}
Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	13.06.2014	11.07.2014	8.255	825.3	36.68
2	13.06.2014	11.07.2014	8.269	869.3	38.64
3	13.06.2014	11.07.2014	8.285	854.1	37.96

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Job No.: CECTC-JCP-W.O-17-2014-15 Date: 05.06.2014

TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer,** Rajarajeshwarinagar Division, BBMP, Bangalore.
Agency : **M/s J C Prakash Infrastructure Pvt. Ltd.,** Bangalore.
Name of the work : Construction of Bridge over Strom Water Drain at 5th Cross Road and 12th A Main Road, Muthyala Nagar in JP Park Ward No.17
Location : Open Foundation
Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm^2
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M_{35}
Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	08.05.2014	05.06.2014	8.320	821.4	36.51
2	08.05.2014	05.06.2014	8.295	852.3	37.88
3	08.05.2014	05.06.2014	8.250	841.2	37.39

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Job No.: CECTC-JCP-W.O-17-2014-15 Date: 01.05.2014

TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer,** Rajarajeshwarinagar Division, BBMP, Bangalore.
Agency : **M/s J C Prakash Infrastructure Pvt. Ltd.,** Bangalore.
Name of the work : Construction of Bridge over Strom Water Drain at 5th Cross Road and 12th A Main Road, Muthyala Nagar in JP Park Ward No.17
Location : Open Foundation
Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm^2
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M_{35}
Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	03.04.2014	01.05.2014	8.236	824.5	36.64
2	03.04.2014	01.05.2014	8.298	841.5	37.40
3	03.04.2014	01.05.2014	8.210	839.6	37.32

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Job No.: CECTC-JCP-SWD-2015-16 Date: 13.08.2014

TEST REPORT ON CONCRETE CUBES

Client : **Assistant Executive Engineer,** RR Nagara Division, BBMP, Bangalore.
Contractor : **Sri. J.C.Prakash,** Contractor, Bangalore.
Name of the work : Construction of Bridge over Storm Water Drain at 5th Cross Road and 12th A Main Road Muthyala Nagara in JP Park Ward No.17, BBMP, Bangalore.
Sample ID : Reinforced Cement Concrete- Super Structure
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm^2
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M_{30}
Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	16.07.2014	13.08.2014	8.276	710.2	31.56
2	16.07.2014	13.08.2014	8.268	725.3	32.24
3	16.07.2014	13.08.2014	8.289	732.9	32.57

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Job No.: CECTC-JCP-SWD-2015-16 Date: 11.07.2014

TEST REPORT ON CONCRETE CUBES

Client : **Assistant Executive Engineer,** RR Nagara Division, BBMP, Bangalore.
Contractor : **Sri. J.C.Prakash,** Contractor, Bangalore.
Name of the work : Construction of Bridge over Storm Water Drain at 5th Cross Road and 12th A Main Road Muthyala Nagara in JP Park Ward No.17, BBMP, Bangalore.
Sample ID : Reinforced Cement Concrete- Super Structure
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm^2
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M_{30}
Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	13.06.2014	11.07.2014	8.309	715.5	31.80
2	13.06.2014	11.07.2014	8.318	732.8	32.57
3	13.06.2014	11.07.2014	8.298	721.3	32.06

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Job No.: CECTC-JCP-SWD-2015-16 Date: 05.06.2014

TEST REPORT ON CONCRETE CUBES

Client : **Assistant Executive Engineer,** RR Nagara Division, BBMP, Bangalore.
Contractor : **Sri. J.C.Prakash,** Contractor, Bangalore.
Name of the work : Construction of Bridge over Storm Water Drain at 5th Cross Road and 12th A Main Road Muthyala Nagara in JP Park Ward No.17, BBMP, Bangalore.
Sample ID : Reinforced Cement Concrete- open Foundation
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm^2
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M_{30}
Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	08.05.2014	05.06.2014	8.276	712.3	31.66
2	08.05.2014	05.06.2014	8.283	724.6	32.20
3	08.05.2014	05.06.2014	8.266	738.9	32.84

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Job No.: CECTC-JCP-SWD-2015-16 Date: 01.05.2014

TEST REPORT ON CONCRETE CUBES

Client : **Assistant Executive Engineer,** RR Nagara Division, BBMP, Bangalore.
Contractor : **Sri. J.C.Prakash,** Contractor, Bangalore.
Name of the work : Construction of Bridge over Storm Water Drain at 5th Cross Road and 12th A Main Road Muthyala Nagara in JP Park Ward No.17, BBMP, Bangalore.
Sample ID : Reinforced Cement Concrete- open Foundation
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm^2
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M_{35}
Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	03.04.2014	01.05.2014	8.306	710.2	31.56
2	03.04.2014	01.05.2014	8.294	735.9	32.71
3	03.04.2014	01.05.2014	8.275	722.7	32.12

Note:
1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 15 days from the date of testing.

AE
Asst

For Civil Experts
Authorised Signature

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